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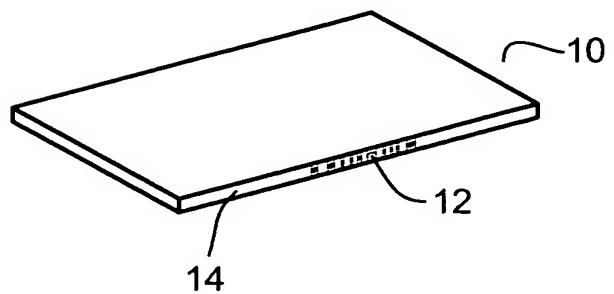


Fig. 1a

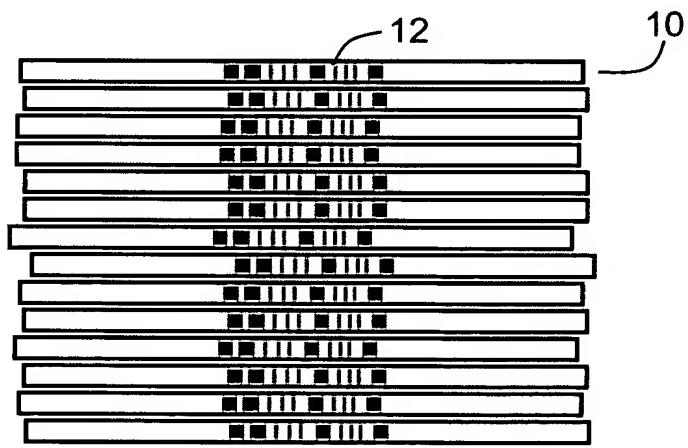


Fig. 1b

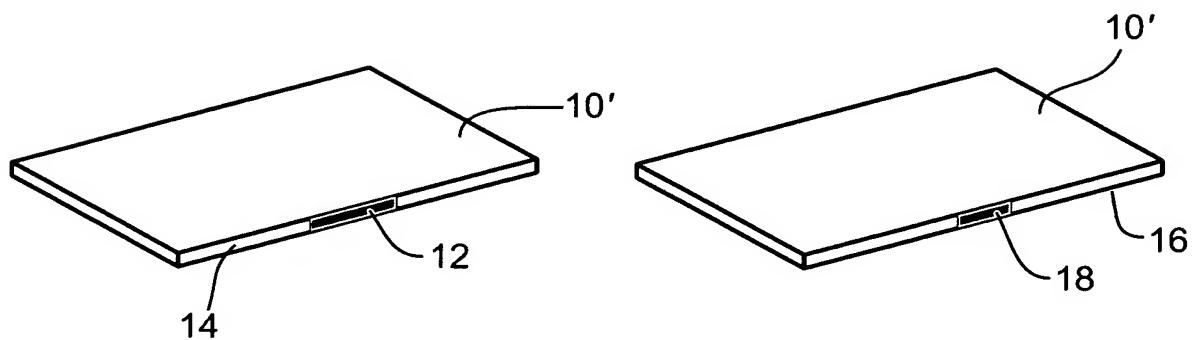


Fig. 2a

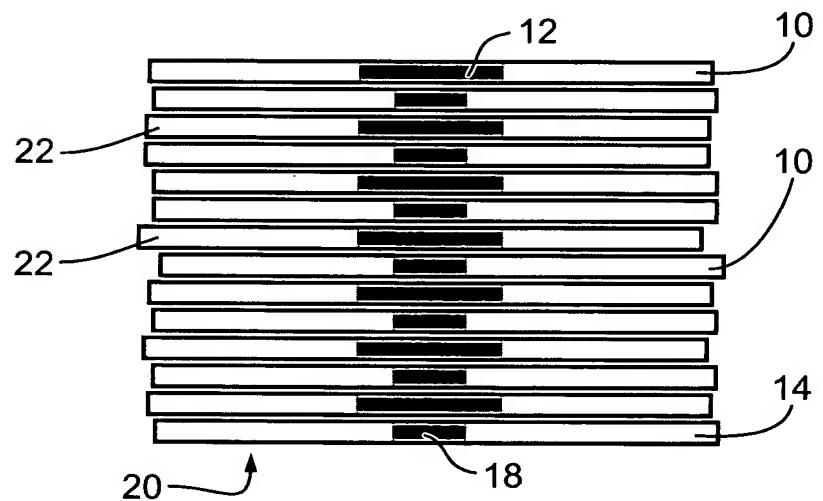


Fig. 2b

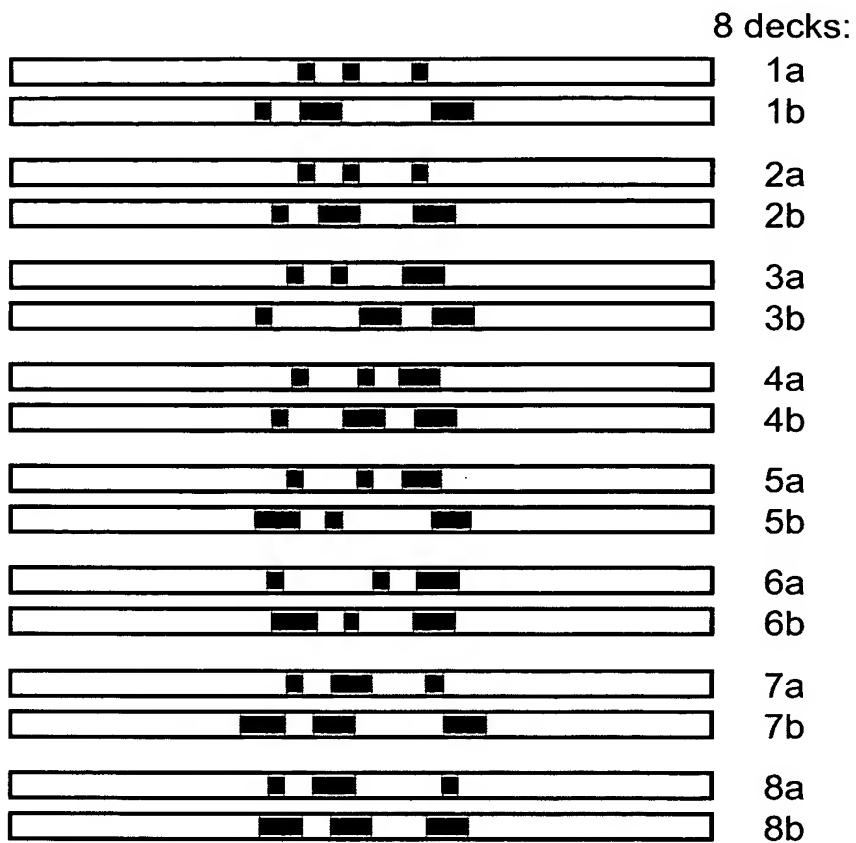
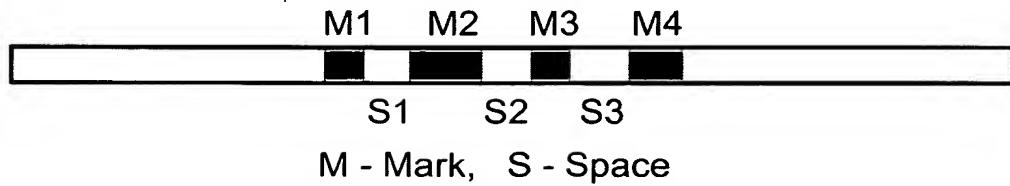


Fig. 3



Deck #	Deck id	M1 width	S1 width	M2 width	S2 width	M3 width	S3 width	M4 width	Pattern
1	1	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2	2	0.8	0.8	0.8	0.8	0.8	0.8	1.6
3	19998	1.6	1.6	1.6	4.0	4.0	4.0	2.4	... - - -
4	19999	1.6	1.6	1.6	4.0	4.0	4.0	3.2	... - - -
5	78124	4.0	4.0	4.0	4.0	4.0	4.0	3.2	- - - - -
6	78125	4.0	4.0	4.0	4.0	4.0	4.0	4.0	- - - - -

* All dimensions are in mm

Fig. 4

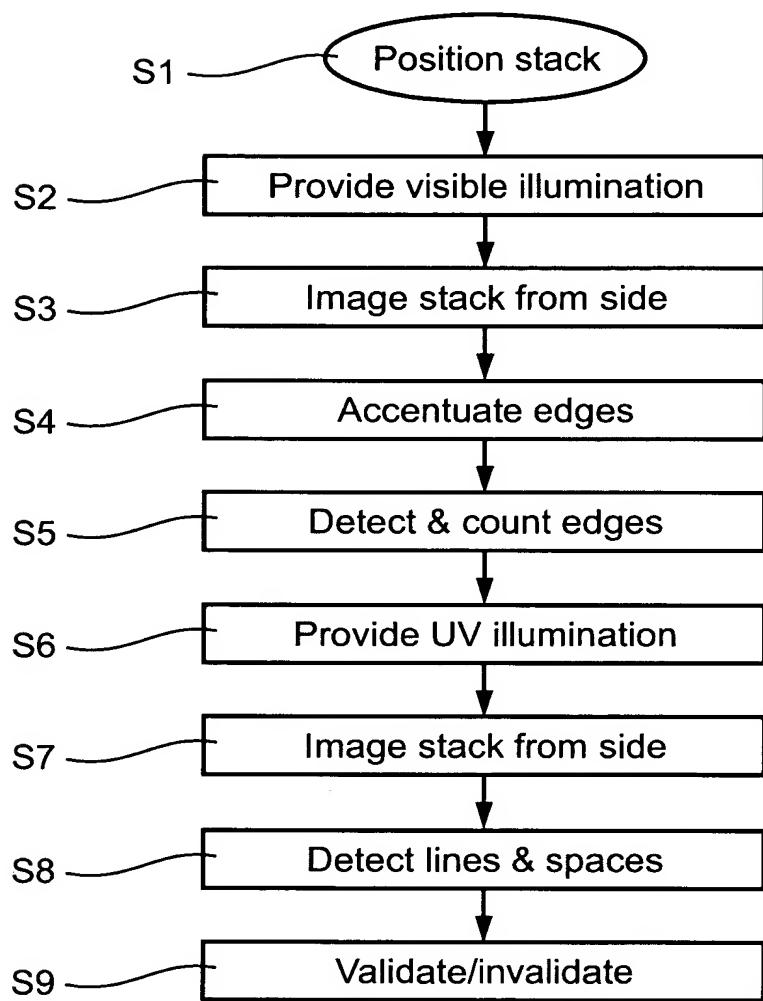


Fig. 5

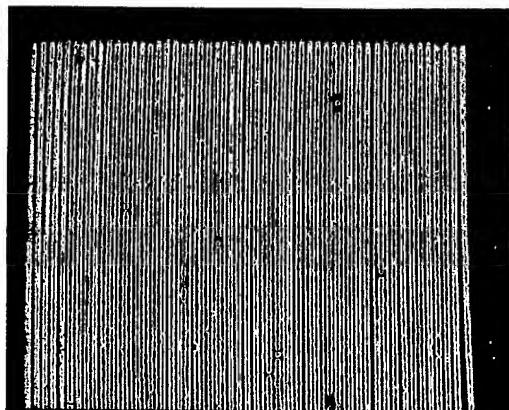


Fig. 6
Image acquired under visible light
(Image acquisition module)

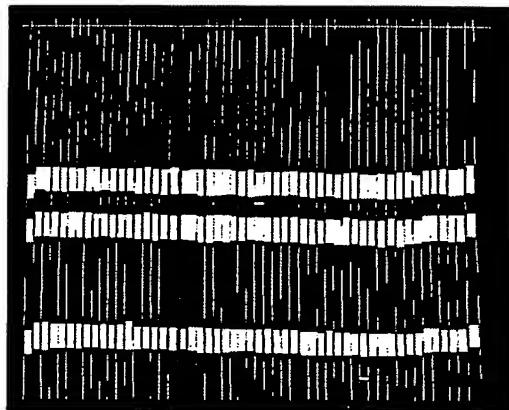


Fig. 8
Image acquired under UV light
(Image acquisition module)

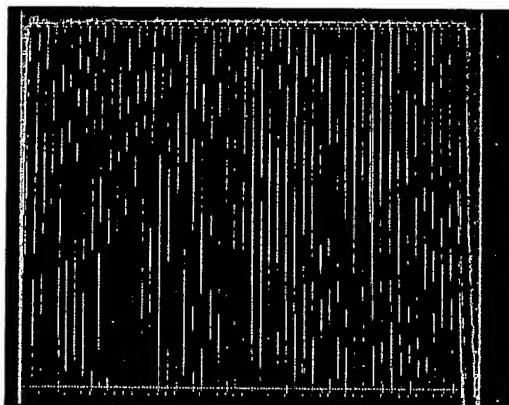


Fig. 7
Card detection and marking
(Counting module)

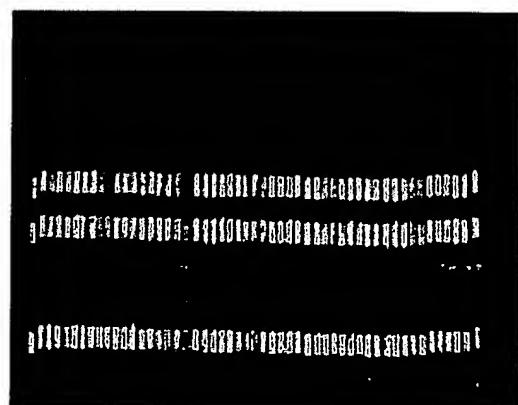


Fig. 9
Bars and spaces detection
(Validation module)

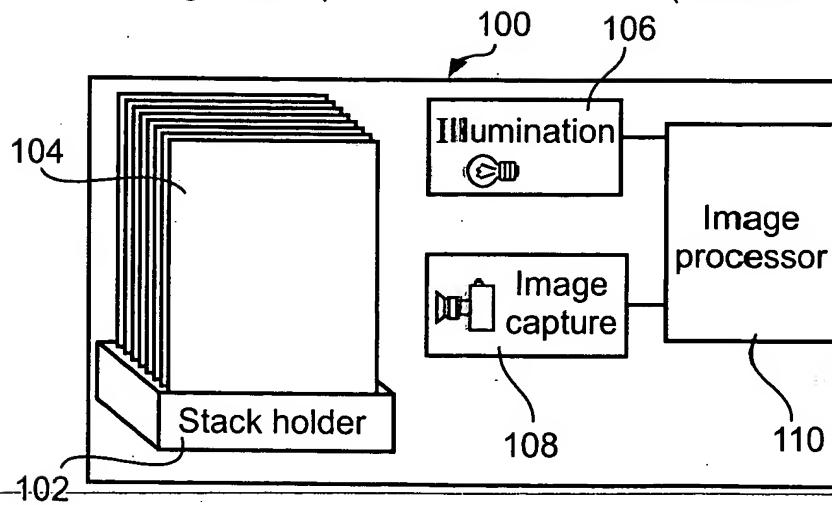


Fig. 10

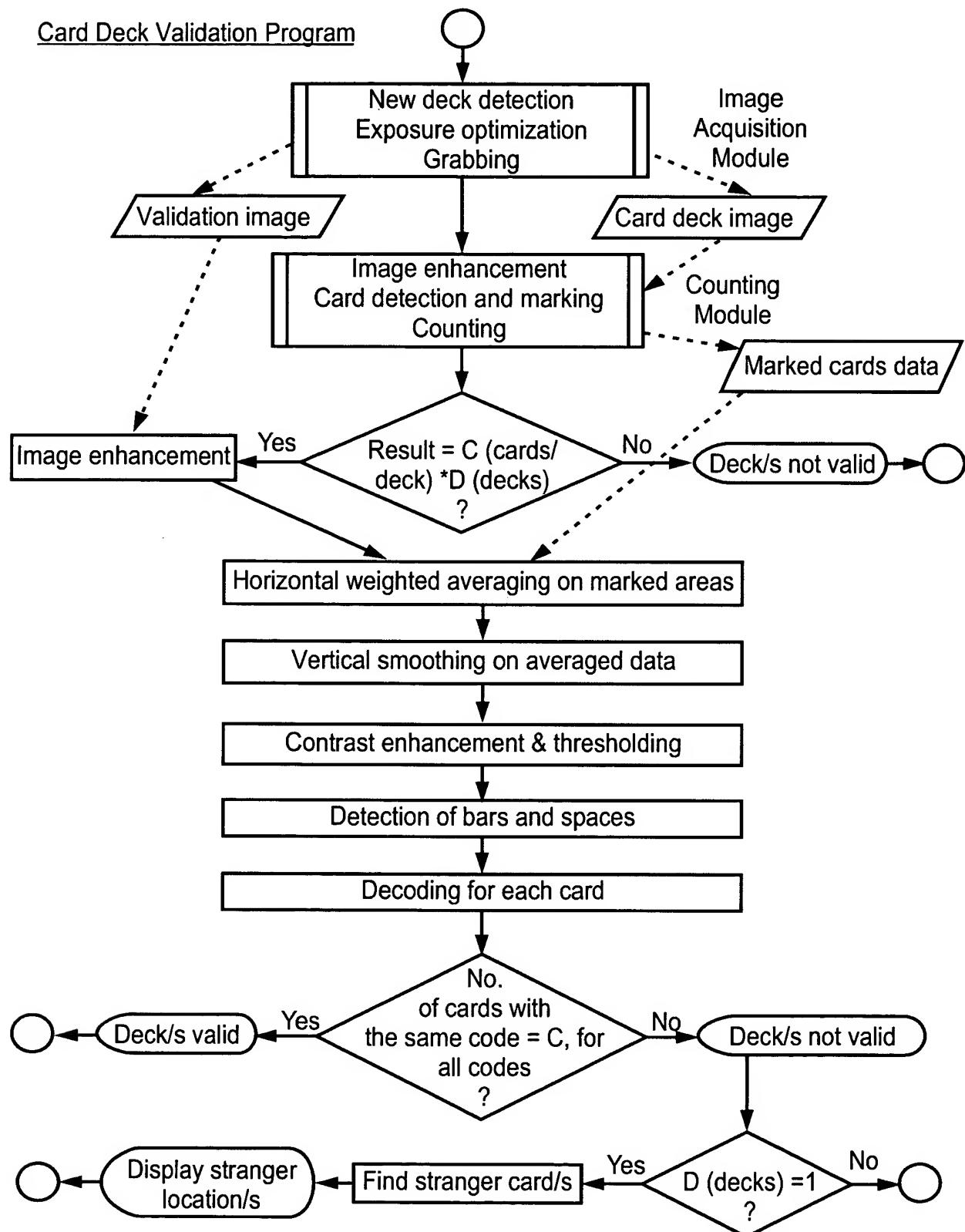


Fig. 11

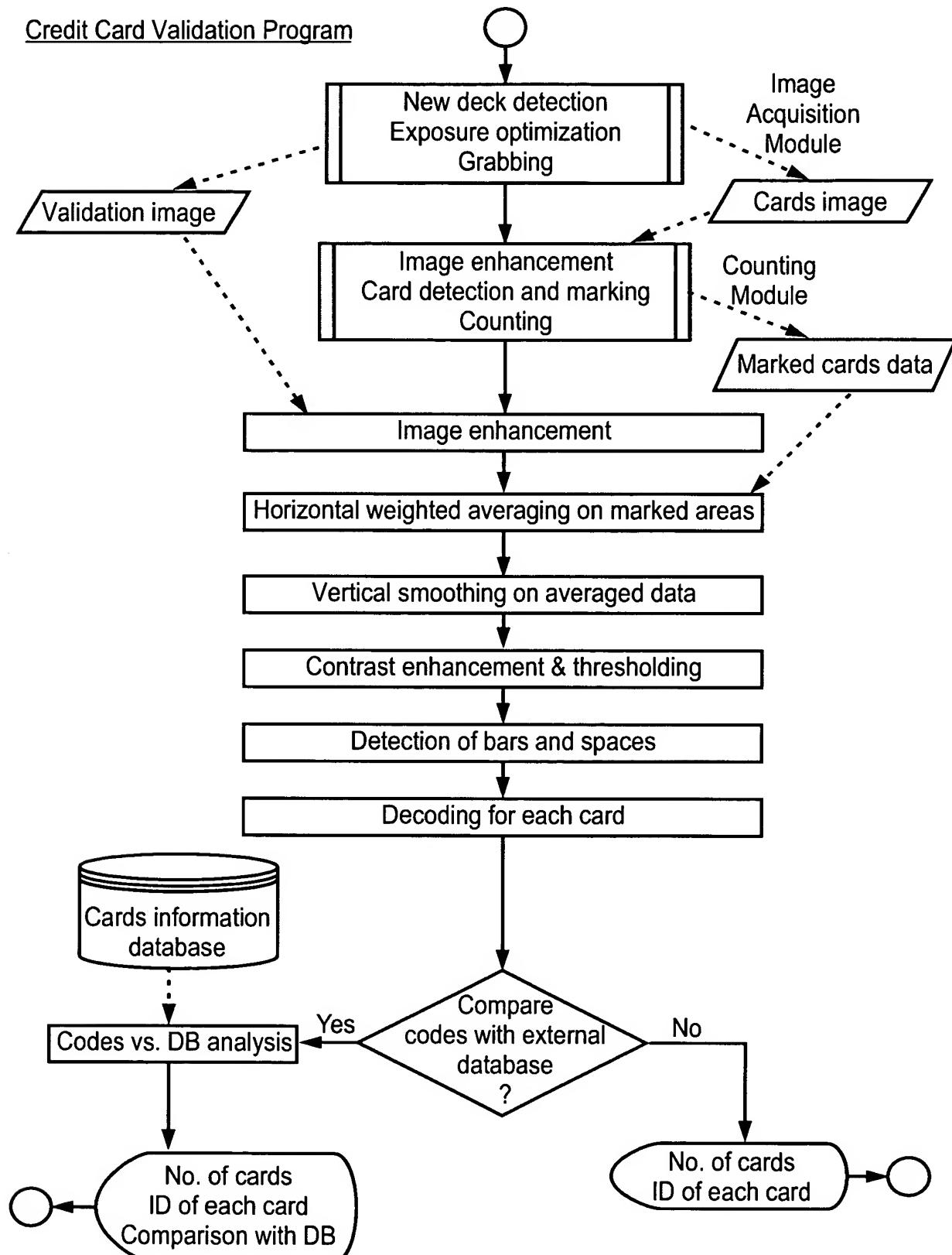


Fig. 12